

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/574,046
Source: IFWP
Date Processed by STIC: 4/7/06

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 04/07/2006

PATENT APPLICATION: US/10/574,046

TIME: 11:01:41

Input Set : A:\SEQLIST.TXT

Output Set: N:\CRF4\04072006\J574046.raw

```

4 <110> APPLICANT: Biolex, Inc.
5      Dickey, Lynn
6      Gasdaska, John
7      Cox, Kevin
11 <120> TITLE OF INVENTION: ALPHA INTERFERON VARIANTS
14 <130> FILE REFERENCE: 40989/273797
C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/574,046
C--> 16 <141> CURRENT FILING DATE: 2006-03-29
16 <150> PRIOR APPLICATION NUMBER: US 10/675,011
17 <151> PRIOR FILING DATE: 2003-03-10
19 <160> NUMBER OF SEQ ID NOS: 12
21 <170> SOFTWARE: FastSEQ for Windows Version 4.0
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 184
25 <212> TYPE: PRT
26 <213> ORGANISM: Artificial Sequence
28 <220> FEATURE:
29 <223> OTHER INFORMATION: Truncated variant of human alpha-2b-interferon
30      precursor
32 <400> SEQUENCE: 1
33 Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
34 1      5      10      15
35 Lys Ser Ser Cys Ser Val Gly Cys Asp Leu Pro Gln Thr His Ser Leu
36      20      25      30
37 Gly Ser Arg Arg Thr Leu Met Leu Leu Ala Gln Met Arg Arg Ile Ser
38      35      40      45
39 Leu Phe Ser Cys Leu Lys Asp Arg His Asp Phe Gly Phe Pro Gln Glu
40      50      55      60
41 Glu Phe Gly Asn Gln Phe Gln Lys Ala Glu Thr Ile Pro Val Leu His
42 65      70      75      80
43 Glu Met Ile Gln Gln Ile Phe Asn Leu Phe Ser Thr Lys Asp Ser Ser
44      85      90      95
45 Ala Ala Trp Asp Glu Thr Leu Leu Asp Lys Phe Tyr Thr Glu Leu Tyr
46      100     105     110
47 Gln Gln Leu Asn Asp Leu Glu Ala Cys Val Ile Gln Gly Val Gly Val
48      115     120     125
49 Thr Glu Thr Pro Leu Met Lys Glu Asp Ser Ile Leu Ala Val Arg Lys
50      130     135     140
51 Tyr Phe Gln Arg Ile Thr Leu Tyr Leu Lys Glu Lys Lys Tyr Ser Pro
52 145     150     155     160
53 Cys Ala Trp Glu Val Val Arg Ala Glu Ile Met Arg Ser Phe Ser Leu
54      165     170     175
55 Ser Thr Asn Leu Gln Glu Ser Leu

```

RAW SEQUENCE LISTING

DATE: 04/07/2006

PATENT APPLICATION: US/10/574,046

TIME: 11:01:41

Input Set : A:\SEQLIST.TXT

Output Set: N:\CRF4\04072006\J574046.raw

```

56          180
59 <210> SEQ ID NO: 2
60 <211> LENGTH: 183
61 <212> TYPE: PRT
62 <213> ORGANISM: Artificial Sequence
64 <220> FEATURE:
65 <223> OTHER INFORMATION: Truncated variant of human alpha-2b-interferon
66     precursor
68 <400> SEQUENCE: 2
69 Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
70 1          5          10          15
71 Lys Ser Ser Cys Ser Val Gly Cys Asp Leu Pro Gln Thr His Ser Leu
72          20          25          30
73 Gly Ser Arg Arg Thr Leu Met Leu Leu Ala Gln Met Arg Arg Ile Ser
74          35          40          45
75 Leu Phe Ser Cys Leu Lys Asp Arg His Asp Phe Gly Phe Pro Gln Glu
76          50          55          60
77 Glu Phe Gly Asn Gln Phe Gln Lys Ala Glu Thr Ile Pro Val Leu His
78 65          70          75          80
79 Glu Met Ile Gln Gln Ile Phe Asn Leu Phe Ser Thr Lys Asp Ser Ser
80          85          90          95
81 Ala Ala Trp Asp Glu Thr Leu Leu Asp Lys Phe Tyr Thr Glu Leu Tyr
82          100          105          110
83 Gln Gln Leu Asn Asp Leu Glu Ala Cys Val Ile Gln Gly Val Gly Val
84          115          120          125
85 Thr Glu Thr Pro Leu Met Lys Glu Asp Ser Ile Leu Ala Val Arg Lys
86          130          135          140
87 Tyr Phe Gln Arg Ile Thr Leu Tyr Leu Lys Glu Lys Lys Tyr Ser Pro
88 145          150          155          160
89 Cys Ala Trp Glu Val Val Arg Ala Glu Ile Met Arg Ser Phe Ser Leu
90          165          170          175
91 Ser Thr Asn Leu Gln Glu Ser
92          180
95 <210> SEQ ID NO: 3
96 <211> LENGTH: 182
97 <212> TYPE: PRT
98 <213> ORGANISM: Artificial Sequence
100 <220> FEATURE:
101 <223> OTHER INFORMATION: Truncated variant of human alpha-2b-interferon
102     precursor
104 <400> SEQUENCE: 3
105 Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
106 1          5          10          15
107 Lys Ser Ser Cys Ser Val Gly Cys Asp Leu Pro Gln Thr His Ser Leu
108          20          25          30
109 Gly Ser Arg Arg Thr Leu Met Leu Leu Ala Gln Met Arg Arg Ile Ser
110          35          40          45
111 Leu Phe Ser Cys Leu Lys Asp Arg His Asp Phe Gly Phe Pro Gln Glu
112          50          55          60

```

RAW SEQUENCE LISTING

DATE: 04/07/2006

PATENT APPLICATION: US/10/574,046

TIME: 11:01:42

Input Set : A:\SEQLIST.TXT

Output Set: N:\CRF4\04072006\J574046.raw

```

113 Glu Phe Gly Asn Gln Phe Gln Lys Ala Glu Thr Ile Pro Val Leu His
114 65                               70                               75                               80
115 Glu Met Ile Gln Gln Ile Phe Asn Leu Phe Ser Thr Lys Asp Ser Ser
116                               85                               90                               95
117 Ala Ala Trp Asp Glu Thr Leu Leu Asp Lys Phe Tyr Thr Glu Leu Tyr
118                               100                              105                              110
119 Gln Gln Leu Asn Asp Leu Glu Ala Cys Val Ile Gln Gly Val Gly Val
120                               115                              120                              125
121 Thr Glu Thr Pro Leu Met Lys Glu Asp Ser Ile Leu Ala Val Arg Lys
122                               130                              135                              140
123 Tyr Phe Gln Arg Ile Thr Leu Tyr Leu Lys Glu Lys Lys Tyr Ser Pro
124 145                               150                              155                              160
125 Cys Ala Trp Glu Val Val Arg Ala Glu Ile Met Arg Ser Phe Ser Leu
126                               165                              170                              175
127 Ser Thr Asn Leu Gln Glu
128                               180
131 <210> SEQ ID NO: 4
132 <211> LENGTH: 181
133 <212> TYPE: PRT
134 <213> ORGANISM: Artificial Sequence
136 <220> FEATURE:
137 <223> OTHER INFORMATION: Truncated variant of human alpha-2b-interferon
138 precursor
140 <400> SEQUENCE: 4
141 Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
142 1                               5                               10                               15
143 Lys Ser Ser Cys Ser Val Gly Cys Asp Leu Pro Gln Thr His Ser Leu
144                               20                               25                               30
145 Gly Ser Arg Arg Thr Leu Met Leu Leu Ala Gln Met Arg Arg Ile Ser
146                               35                               40                               45
147 Leu Phe Ser Cys Leu Lys Asp Arg His Asp Phe Gly Phe Pro Gln Glu
148                               50                               55                               60
149 Glu Phe Gly Asn Gln Phe Gln Lys Ala Glu Thr Ile Pro Val Leu His
150 65                               70                               75                               80
151 Glu Met Ile Gln Gln Ile Phe Asn Leu Phe Ser Thr Lys Asp Ser Ser
152                               85                               90                               95
153 Ala Ala Trp Asp Glu Thr Leu Leu Asp Lys Phe Tyr Thr Glu Leu Tyr
154                               100                              105                              110
155 Gln Gln Leu Asn Asp Leu Glu Ala Cys Val Ile Gln Gly Val Gly Val
156                               115                              120                              125
157 Thr Glu Thr Pro Leu Met Lys Glu Asp Ser Ile Leu Ala Val Arg Lys
158                               130                              135                              140
159 Tyr Phe Gln Arg Ile Thr Leu Tyr Leu Lys Glu Lys Lys Tyr Ser Pro
160 145                               150                              155                              160
161 Cys Ala Trp Glu Val Val Arg Ala Glu Ile Met Arg Ser Phe Ser Leu
162                               165                              170                              175
163 Ser Thr Asn Leu Gln
164                               180
167 <210> SEQ ID NO: 5

```

RAW SEQUENCE LISTING

DATE: 04/07/2006

PATENT APPLICATION: US/10/574,046

TIME: 11:01:42

Input Set : A:\SEQLIST.TXT

Output Set: N:\CRF4\04072006\J574046.raw

```

168 <211> LENGTH: 180
169 <212> TYPE: PRT
170 <213> ORGANISM: Artificial Sequence
172 <220> FEATURE:
173 <223> OTHER INFORMATION: Truncated varaint of human alpha-2b-interferon
174 precursor
176 <400> SEQUENCE: 5
177 Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
178 1 5 10 15
179 Lys Ser Ser Cys Ser Val Gly Cys Asp Leu Pro Gln Thr His Ser Leu
180 20 25 30
181 Gly Ser Arg Arg Thr Leu Met Leu Leu Ala Gln Met Arg Arg Ile Ser
182 35 40 45
183 Leu Phe Ser Cys Leu Lys Asp Arg His Asp Phe Gly Phe Pro Gln Glu
184 50 55 60
185 Glu Phe Gly Asn Gln Phe Gln Lys Ala Glu Thr Ile Pro Val Leu His
186 65 70 75 80
187 Glu Met Ile Gln Gln Ile Phe Asn Leu Phe Ser Thr Lys Asp Ser Ser
188 85 90 95
189 Ala Ala Trp Asp Glu Thr Leu Leu Asp Lys Phe Tyr Thr Glu Leu Tyr
190 100 105 110
191 Gln Gln Leu Asn Asp Leu Glu Ala Cys Val Ile Gln Gly Val Gly Val
192 115 120 125
193 Thr Glu Thr Pro Leu Met Lys Glu Asp Ser Ile Leu Ala Val Arg Lys
194 130 135 140
195 Tyr Phe Gln Arg Ile Thr Leu Tyr Leu Lys Glu Lys Lys Tyr Ser Pro
196 145 150 155 160
197 Cys Ala Trp Glu Val Val Arg Ala Glu Ile Met Arg Ser Phe Ser Leu
198 165 170 175
199 Ser Thr Asn Leu
200 180
203 <210> SEQ ID NO: 6
204 <211> LENGTH: 161
205 <212> TYPE: PRT
206 <213> ORGANISM: Artificial Sequence
208 <220> FEATURE:
209 <223> OTHER INFORMATION: Truncated variant of mature human
210 alpha-2b-interferon
212 <400> SEQUENCE: 6
213 Cys Asp Leu Pro Gln Thr His Ser Leu Gly Ser Arg Arg Thr Leu Met
214 1 5 10 15
215 Leu Leu Ala Gln Met Arg Arg Ile Ser Leu Phe Ser Cys Leu Lys Asp
216 20 25 30
217 Arg His Asp Phe Gly Phe Pro Gln Glu Glu Phe Gly Asn Gln Phe Gln
218 35 40 45
219 Lys Ala Glu Thr Ile Pro Val Leu His Glu Met Ile Gln Gln Ile Phe
220 50 55 60
221 Asn Leu Phe Ser Thr Lys Asp Ser Ser Ala Ala Trp Asp Glu Thr Leu
222 65 70 75 80

```

RAW SEQUENCE LISTING

DATE: 04/07/2006

PATENT APPLICATION: US/10/574,046

TIME: 11:01:42

Input Set : A:\SEQLIST.TXT

Output Set: N:\CRF4\04072006\J574046.raw

```

223 Leu Asp Lys Phe Tyr Thr Glu Leu Tyr Gln Gln Leu Asn Asp Leu Glu
224      85      90      95
225 Ala Cys Val Ile Gln Gly Val Gly Val Thr Glu Thr Pro Leu Met Lys
226      100     105     110
227 Glu Asp Ser Ile Leu Ala Val Arg Lys Tyr Phe Gln Arg Ile Thr Leu
228      115     120     125
229 Tyr Leu Lys Glu Lys Lys Tyr Ser Pro Cys Ala Trp Glu Val Val Arg
230      130     135     140
231 Ala Glu Ile Met Arg Ser Phe Ser Leu Ser Thr Asn Leu Gln Glu Ser
232 145      150      155      160
233 Leu

```

237 <210> SEQ ID NO: 7

238 <211> LENGTH: 160

239 <212> TYPE: PRT

240 <213> ORGANISM: Artificial Sequence

242 <220> FEATURE:

243 <223> OTHER INFORMATION: Truncated variant of mature human

244 alpha-2b-interferon

246 <400> SEQUENCE: 7

```

247 Cys Asp Leu Pro Gln Thr His Ser Leu Gly Ser Arg Arg Thr Leu Met
248 1      5      10      15
249 Leu Leu Ala Gln Met Arg Arg Ile Ser Leu Phe Ser Cys Leu Lys Asp
250      20      25      30
251 Arg His Asp Phe Gly Phe Pro Gln Glu Glu Phe Gly Asn Gln Phe Gln
252      35      40      45
253 Lys Ala Glu Thr Ile Pro Val Leu His Glu Met Ile Gln Gln Ile Phe
254      50      55      60
255 Asn Leu Phe Ser Thr Lys Asp Ser Ser Ala Ala Trp Asp Glu Thr Leu
256 65      70      75      80
257 Leu Asp Lys Phe Tyr Thr Glu Leu Tyr Gln Gln Leu Asn Asp Leu Glu
258      85      90      95
259 Ala Cys Val Ile Gln Gly Val Gly Val Thr Glu Thr Pro Leu Met Lys
260      100     105     110
261 Glu Asp Ser Ile Leu Ala Val Arg Lys Tyr Phe Gln Arg Ile Thr Leu
262      115     120     125
263 Tyr Leu Lys Glu Lys Lys Tyr Ser Pro Cys Ala Trp Glu Val Val Arg
264      130     135     140
265 Ala Glu Ile Met Arg Ser Phe Ser Leu Ser Thr Asn Leu Gln Glu Ser
266 145      150      155      160

```

269 <210> SEQ ID NO: 8

270 <211> LENGTH: 159

271 <212> TYPE: PRT

272 <213> ORGANISM: Artificial Sequence

274 <220> FEATURE:

275 <223> OTHER INFORMATION: Truncated variant of mature human

276 alpha-2b-interferon

278 <400> SEQUENCE: 8

```

279 Cys Asp Leu Pro Gln Thr His Ser Leu Gly Ser Arg Arg Thr Leu Met
280 1      5      10      15

```

VERIFICATION SUMMARY

DATE: 04/07/2006

PATENT APPLICATION: US/10/574,046

TIME: 11:01:43

Input Set : A:\SEQLIST.TXT

Output Set: N:\CRF4\04072006\J574046.raw

L:16 M:270 C: Current Application Number differs, Replaced Current Application No
L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:374 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:377 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:11